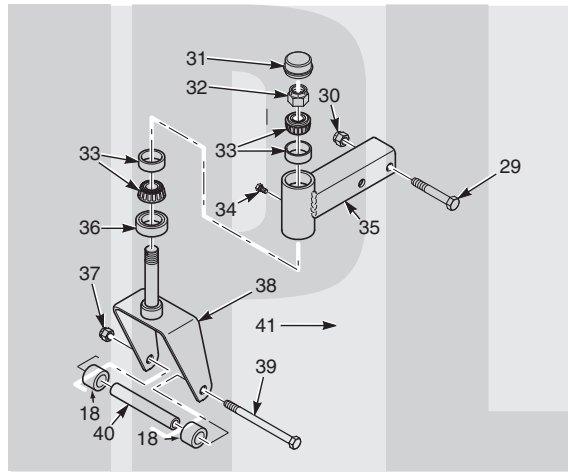


SCAG[®]

POWER EQUIPMENT



MODEL STT-31EFI

ILLUSTRATED PARTS LIST

THIS MANUAL CONTAINS THE ILLUSTRATED PARTS LIST FOR MODELS:

STT61V-31EFI-SS

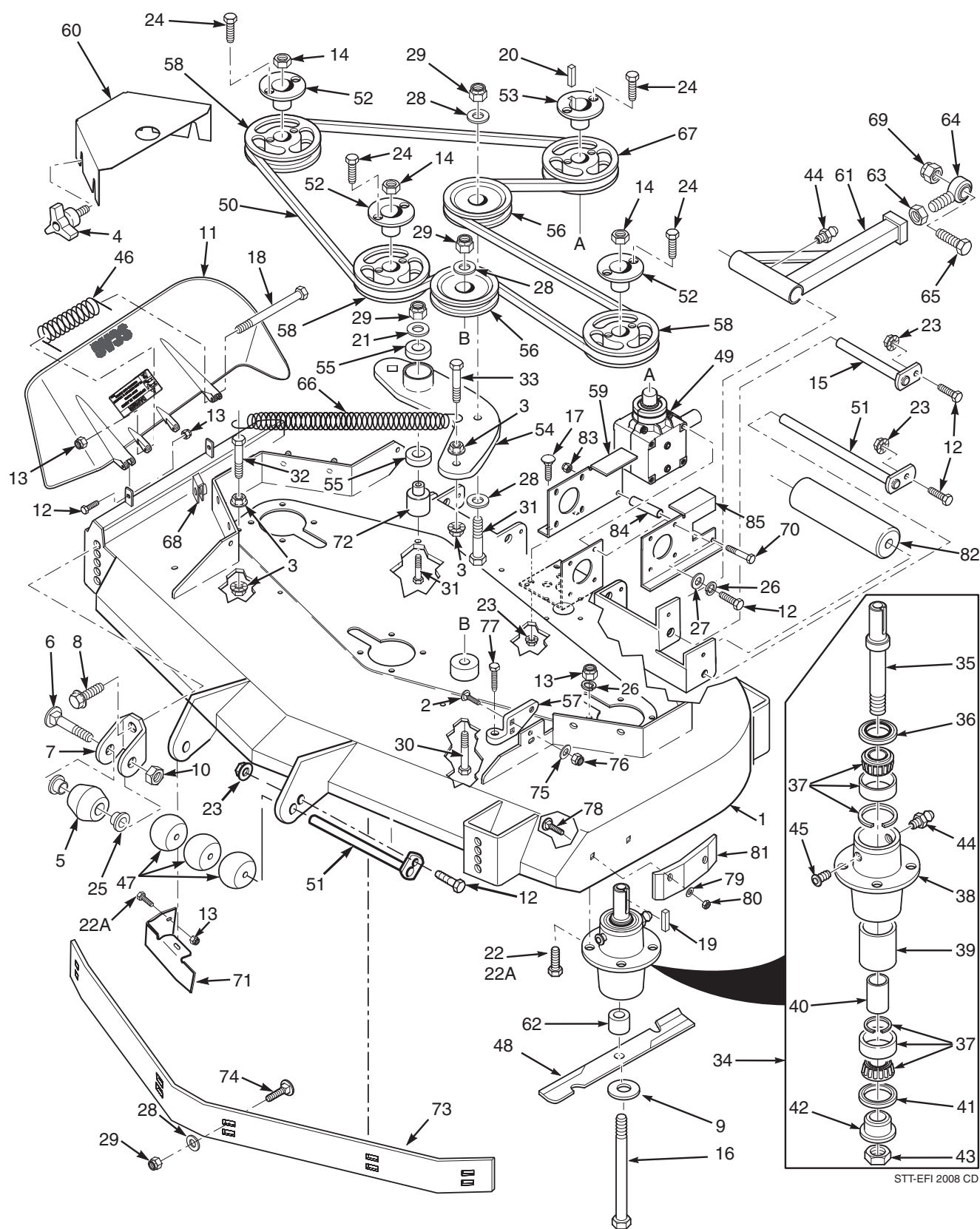
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61V CUTTER DECK

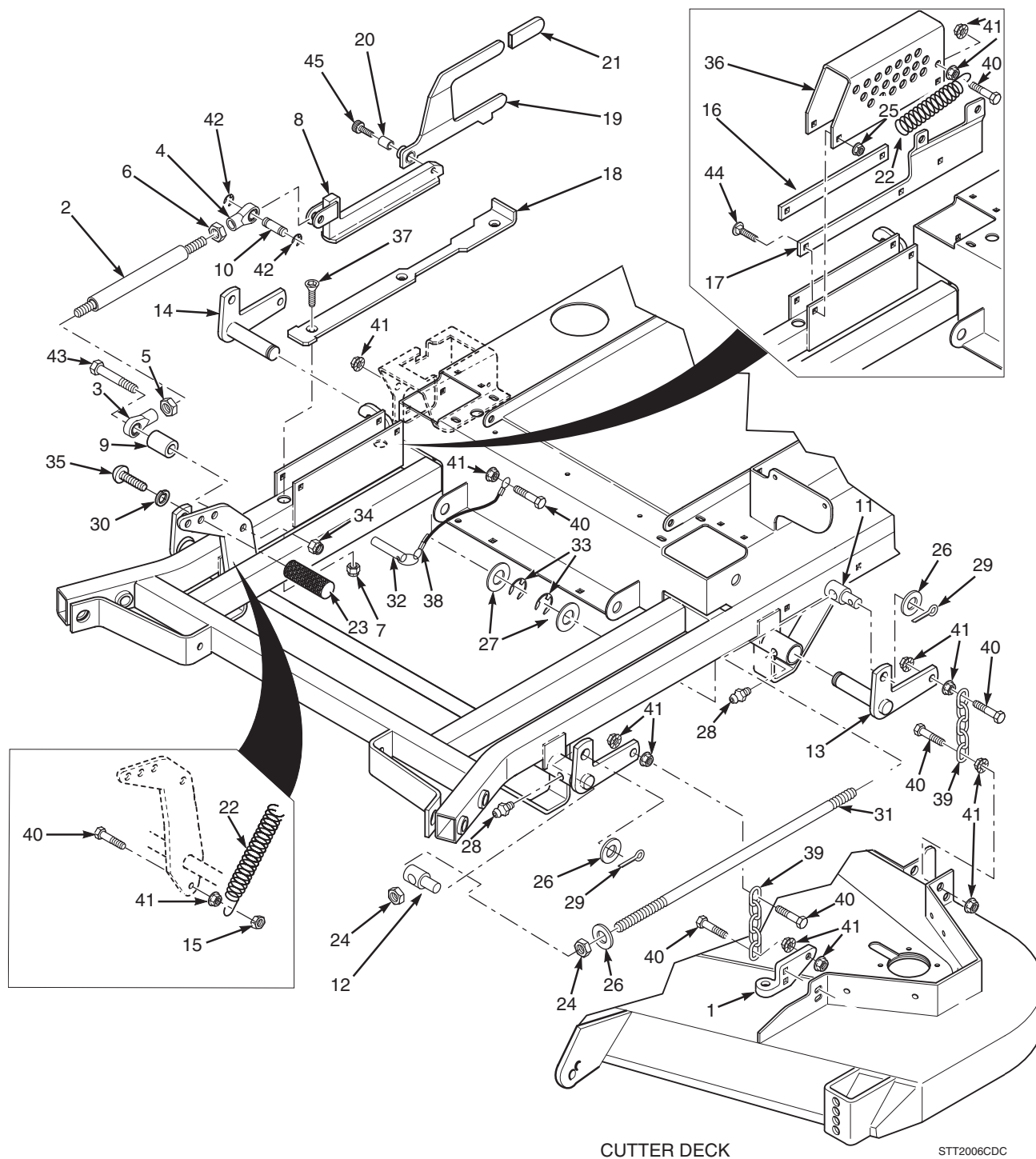


STT-EFI 2008 CD

61V CUTTER DECK

Ref. Part No. No.	Description	Ref. Part No. No.	Description
1 461863	Cutter Deck Velocity Plus	49 482486	Gearbox Assembly, Deck Drive
2 04003-40	Bolt, Carriage 7/16-14 x 1-1/4"	50 481558	Belt, Cutter Deck Drive
3 04019-04	Nut, Hex Serrated Flange 3/8-16	51 45944	Roller Shaft
4 481625-01	Wing nut, 3/8-16	52 48926	Tapered Hub, 1-1/8" Bore
5 481632	Anti-Scalp Wheel	53 48141	Tapered Hub, 1" Bore
6 04003-26	Bolt, Carriage 3/8-16 x 4"	54 461842	Idler Arm, Cutter Deck
7 422478	Anti-Scalp Wheel Bracket	55 48224	Bearings, Ball
8 04017-27	Bolt, Hex Serrated Flange 3/8-16 x 1"	56 483215	Pulley, Idler
9 04043-06	Flatwasher, 5/8" Hardened	57 461929	Lever Assembly, Deck Level (Incl. 77)
10 04021-05	Locknut, 3/8-16 Center Lock	58 482745	Pulley, 6.35 O.D. (61")
11 461846	Discharge Chute	59 424798	Mounting Plate, RH Gearbox
12 04001-12	Bolt, Hex Head 5/16-18 x 1-1/2" - Rear	60 424325	Belt, Cover
13 04021-22	Nut, Hex Elastic Stop 5/16-18 Grade 8	61 461516	Pusharm (incl. items 44, 63 & 64)
14 04020-09	Nut, 5/8-11 UNC	62 43590	Spacer, Spindle Bottom
15 451240	Push Arm Shaft	63 04020-16	Nut, Hex Head 5/8-18 UNF
16 04001-41	Bolt, Hex Head 5/8-11 x 9-1/2"	64 48763	Rod End, 5/8" Male RH Thread
17 04003-12	Bolt, Carriage 5/16-18 x 3/4"	65 04001-79	Bolt, Hex Head 5/8-11 x 4-1/2"
18 04001-108	Bolt, Hex Head 5/16-18 x 4-1/2"	66 481597	Spring, Cutter Deck
19 04063-08	Key, 1/4 x 1/4 x 2"	67 482746	Pulley, 6.75 O.D.
20 04063-01	Key, 1/4 x 1/4 x 1-1/4"	68 04110-03	U-Nut, 3/8-16
21 04043-04	Flatwasher, 3/8-.39 x .938 x .105 HD	69 04021-13	Nut, Hex Elastic Stop 5/8-11
22 04001-176	Bolt, Hex Head 5/16-18 x 1-3/4"	70 04001-154	Bolt, Hex Head 5/16-18 x 4-3/4"
23 04019-03	Nut, Hex Serrated Flange 5/16-18	71 424209	Discharge Baffle 61V
24 04001-172	Bolt, Hex Head 1/4-20 x 1" Grade 8	72 43503	Pivot, Idler - Short
25 48100-15	Bushing, .376 I.D. Oilite	73 424841	Baffle, Custom Cut 61V
26 04030-03	Lockwasher, 5/16"	74 04003-23	Bolt, Carriage 3/8-16 x 1"
27 04040-15	Flatwasher, 5/16" (.375 x .875 x .083)	75 04040-11	Flatwasher, 7/16-.500 x 1.25 x .083
28 04041-07	Flatwasher, 3/8" (.391 x .938 x .105)	76 04021-11	Nut, Elastic Stop 7/16-14
29 04021-09	Nut, Hex Elastic Stop 3/8-16	77 483167	Bolt, Deck Adjust
30 04001-62	Bolt, Hex Head 3/8-16 x 3-1/4"	78 04003-12	Bolt, Carriage 5/16-18 x 3/4"
31 04001-54	Bolt, Hex Head 3/8-16 x 3"	79 04040-04	Flatwasher, 5/16"
32 04001-20	Bolt, Hex Head 3/8-16 x 1-1/2"	80 04021-04	Nut, Center Lock 5/16-18
33 04001-136	Bolt, Hex Head 3/8-16 x 1-1/2" Grade 8	81 483176	Wear Pad
34 461663	Spindle Assembly	82 48038	Wheel, Anti-Scalp
35 43589	Spindle Shaft	83 04021-10	Nut, Elastic Stop 5/16-18
36 481024	Seal, Top	84 43763	Spacer, Gearbox Mount
37 481022	Bearing Assembly	85 424799	Mounting Plate, LH Gearbox
38 43644	Spindle Housing		
39 43312	Spacer, Outside		
40 43296	Spacer, Inside		
41 481025	Seal, Bottom		
42 43297	Spindle Bushing, Bottom		
43 481035	Nut, Special 1-1/16-18		
44 48114-04	Grease Fitting		
45 48677	Relief Fitting, Tapered Spindle		
46 483378	Spring, Discharge Chute		
47 482295	Wheel, Anti-Scalp		
48 482879	Cutter Blade, 21"		

CUTTER DECK CONTROLS

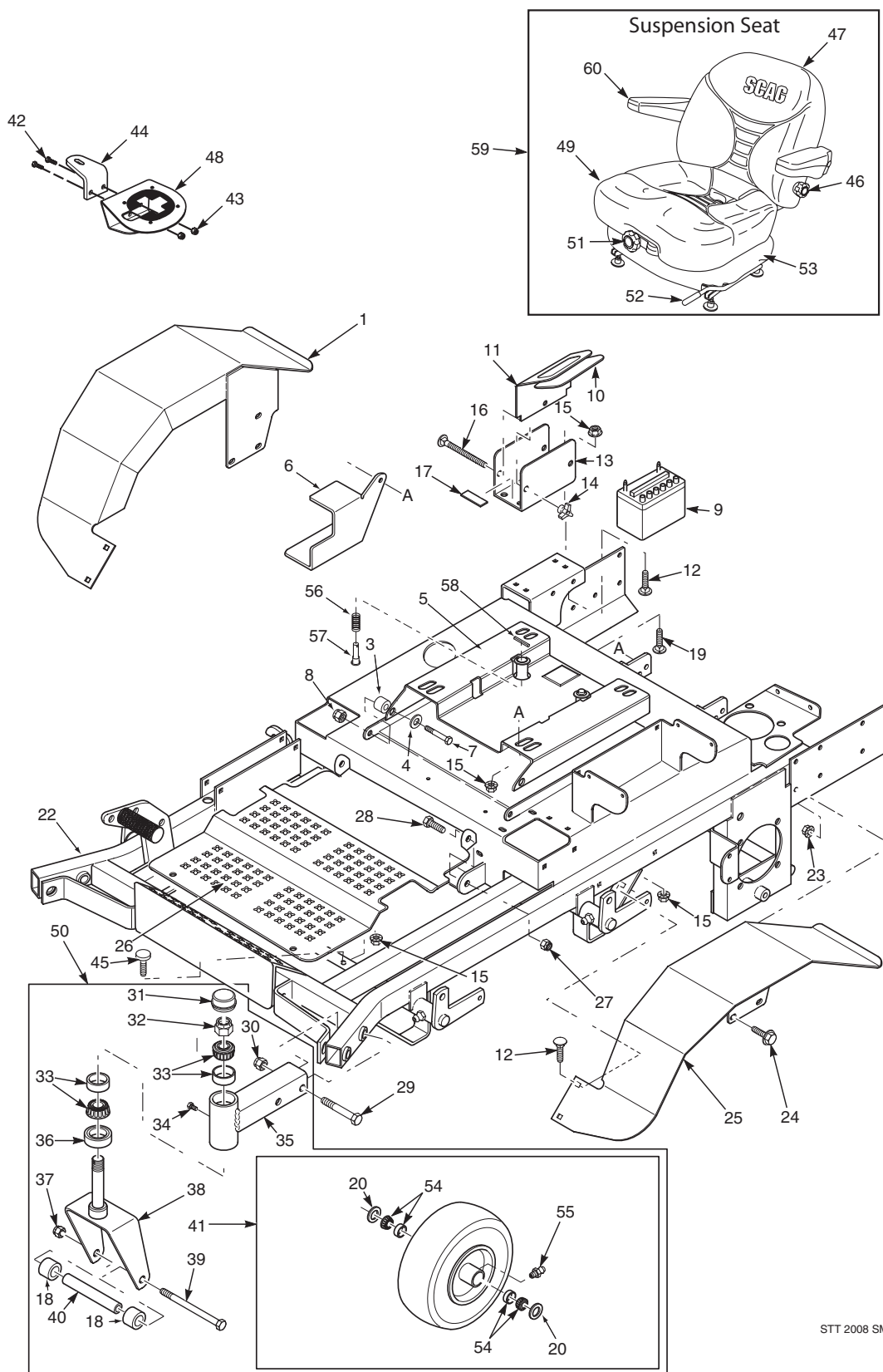


STT2006CDC

CUTTER DECK CONTROLS

Ref. No.	Part No.	Description
1	461929	Lever Assembly, Deck Level
2	481764	Link, Deck Lift
3	481765	Rod End, Female - 1/2-20 RH
4	481766	Rod End, Female - 1/2-20 LH
5	04020-27	Nut, Jam 1/2-20 RH
6	04020-28	Nut, Jam 1/2-20 LH
7	04021-09	Nut, 3/8-16 Elastic Stop
8	482429	Slide Weldment, Height Adjustment
9	43391	Spacer, Decklift Pedal
10	43487	Pin, Decklift
11	43526	Swivel Joint, LH
12	43527	Swivel Joint, RH
13	45904	Bellcrank Weldment, LH Rear
14	45905	Bellcrank Weldment, RH Rear
15	04021-05	Locknut, 3/8-16 Center Lock
16	422381	Guide, Short
17	423509	Guide, Long
18	422346	Lockplate, Decklift
19	46975	Deck Latch (Includes items 20 & 21)
20	48100-14	Bushing, .502 ID.
21	481428	Grip, Deck Latch
22	481598	Spring, Helper (61" & 72" Cutter Decks Only)
23	424504	Foot Pedal, Height Adjustment
24	04020-09	Nut, Hex 5/8-11
25	04019 -03	Nut, Hex Serrated Flange 5/16-18
26	04040-09	Flatwasher, 5/8" (.656 x 1.312 x .095)
27	04041-14	Flatwasher, 1" (1.062 x 1.50 x .048)
28	48114-04	Grease Fitting
29	04061-07	Cotter Pin, 3/16 x 1"
30	04030-07	Lockwasher, 5/8"
31	04004-44	Stud, 5/8-11 x 22.0"
32	04067-09	Ring Pin, 1/2 x 3.06"
33	04050-08	Ring, Retaining 1" External "E"
34	04021-07	Nut, Hex Elastic Stop 1/2-13
35	04105-01	Capscrew, 5/8-11 x 1-1/2"
36	423463	Bracket, Cutting Height Adjustment
37	04014-03	Screw, Cap 5/16-18 x 3" FHHS
38	481547	Lanyard, Deck Height Pin
39	48540	Chain
40	04001-20	Bolt, Hex Head 3/8-16 x 1-1/2"
41	04019-04	Nut, Hex Serrated Flange 3/8-16
42	04050-10	Ring, Retaining 1/2" External "E"
43	04001-74	Bolt, Hex Head 1/2-13 x 3"
44	04003-04	Bolt, Carriage 5/16-18 x 1"
45	04009-02	Bolt, Shoulder 1/2 x 3/4"

SHEET METAL COMPONENTS

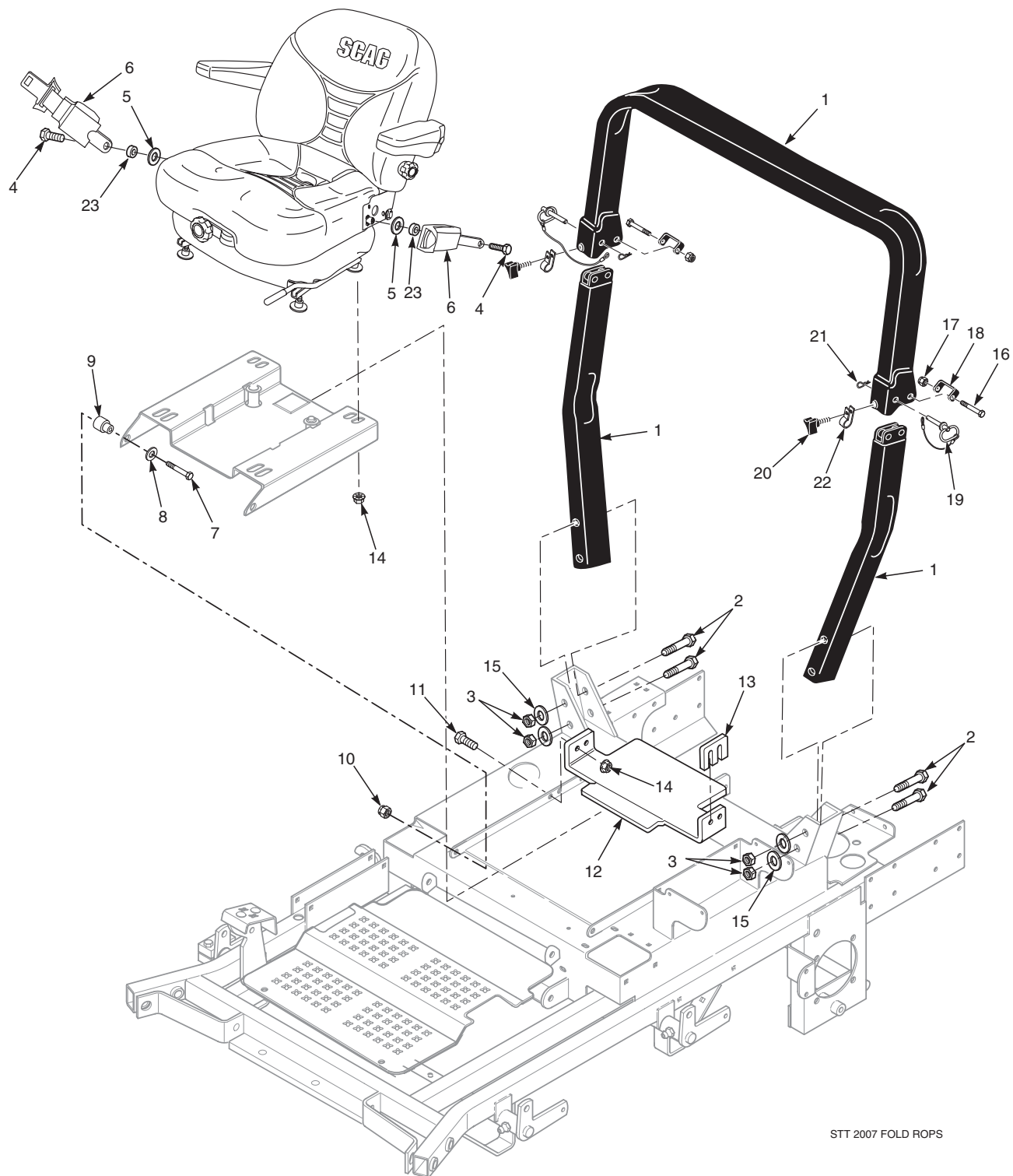


STT 2008 SMC

SHEET METAL COMPONENTS

Ref. No.	Part No.	Description	Ref. No.	Part No.	Description
1	451481	Fender Weldment, RH	41	9278	Wheel Assy, 61V, 72A (Inc. 20, 54, 55)
2	04001-09	Bolt, Hex Head, 5/16-18 x 1, Zinc	42	04001-01	Bolt, Hex Head 1/4-20 x 3/4"
3	43606	Spacer	43	04001-01	Bolt, Hex Head 1/4-20 x 3/4"
4	04041-07	Flatwasher, 3/8-.391 x .938 x .105	44	423674	Mounting Bracket, STT Cup Holder
5	461967	Seat Plate Weldment	45	482943	Lumbar Kit
6	424819	Guard, Fuel Line		482948	Knob Kit
7	04001-45	Bolt, Hex Head 3/8-16 x 2.0"	46	48566	Cable, Seat Stop
8	04021-09	Nut, Elastic Stop 3/8-16	47	482940	Back Cushion Kit
9	*	Battery (not avail. through Scag)	48	9240	Cup Holder Assembly
10	48903	Pad, Battery Cover	49	482941	Seat Cushion Kit
11	421274	Cover, Battery			Seat Drain Kit (Included with Seat Cushion)
12	04003-12	Bolt, Carriage 5/16-18 x 3/4"	50	461908	Caster Wheel Assy (Inc. 31 thru 43)
13	423308	Plate, Battery Box		461909	61V (LH)
14	04029-01	Wing Nut, 1/4-20 x 3/4"			Caster Wheel Assy (Inc. 31 thru 43)
15	04019-03	Nut, Hex Serrated Flange 5/16-18			61V (RH)
16	04003-01	Bolt, Carriage 1/4-20 x 6"	51	482944	Weight Adjustment Kit
17	48661	Rubber Pad		482948	Knob Kit
18	43584	Spacer, Caster Wheel	52	482952	Seat Adjustment, Track Set
19	04003-04	Bolt, Carriage 5/16-18 x 1"	53	482942	Shock Absorber Kit
20	482622	Seal	54	482621	Bearing w/ Race
21	04021-09	Lock Nut, 3/8-16, Elast. Stop	55	48114-10	Grease Fitting
22	461991	Main Frame	56	481389	Spring, Seat
23	04019-04	Nut, Hex Serrated Flange 3/8-16	57	43462	Pin Retainer, Spring
24	04017-27	Screw, Hex Serrated Flange 3/8-16 x 1"	58	04060-01	Roll Pin, Spring 5/32 x 3/4"
25	451480	Fender Weldment, LH	59	483428	Suspension Seat Assembly w/seat belt
26	423489	Foot Plate	60	482950	Armrest Only
27	04021-09	Nut, Hex Elastic Stop 3/8-16		482945	Armrest Assembly Kit, LH
28	04001-19	Bolt, Hex Head 3/8-16 x 1"		482946	Armrest Assembly Kit, RH
29	04001-125	Bolt, Hex Head 5/8-11 x 4"			
30	04021-13	Nut, Hex Elastic Stop 5/8-11			
31	481559	Cap, Grease			
32	04021-20	Nut, Hex Elastic Stop 1.0-14			
33	481657	Bearing W/Race			
34	482028-01	Plug, 1/4-28 THD Form			
35	451825	Extention Weldment, Caster 61V (LH)			
	451451	Extention Weldment, Caster 61V (RH)			
36	481025	Seal, 2.00 OD. x 1.625 Bore			
37	04021-07	Nut, Hex Elastic Stop 1/2-13			
38	451416	Yoke Weldment, Caster (61V)			
39	04001-167	Bolt, Hex Head 1/2-13 x 9-1/2" (61V)			
40	43583	Sleeve, Caster Wheel (61V)			

STT ROLL-OVER PROTECTION SYSTEM - WITH SUSPENSION SEAT

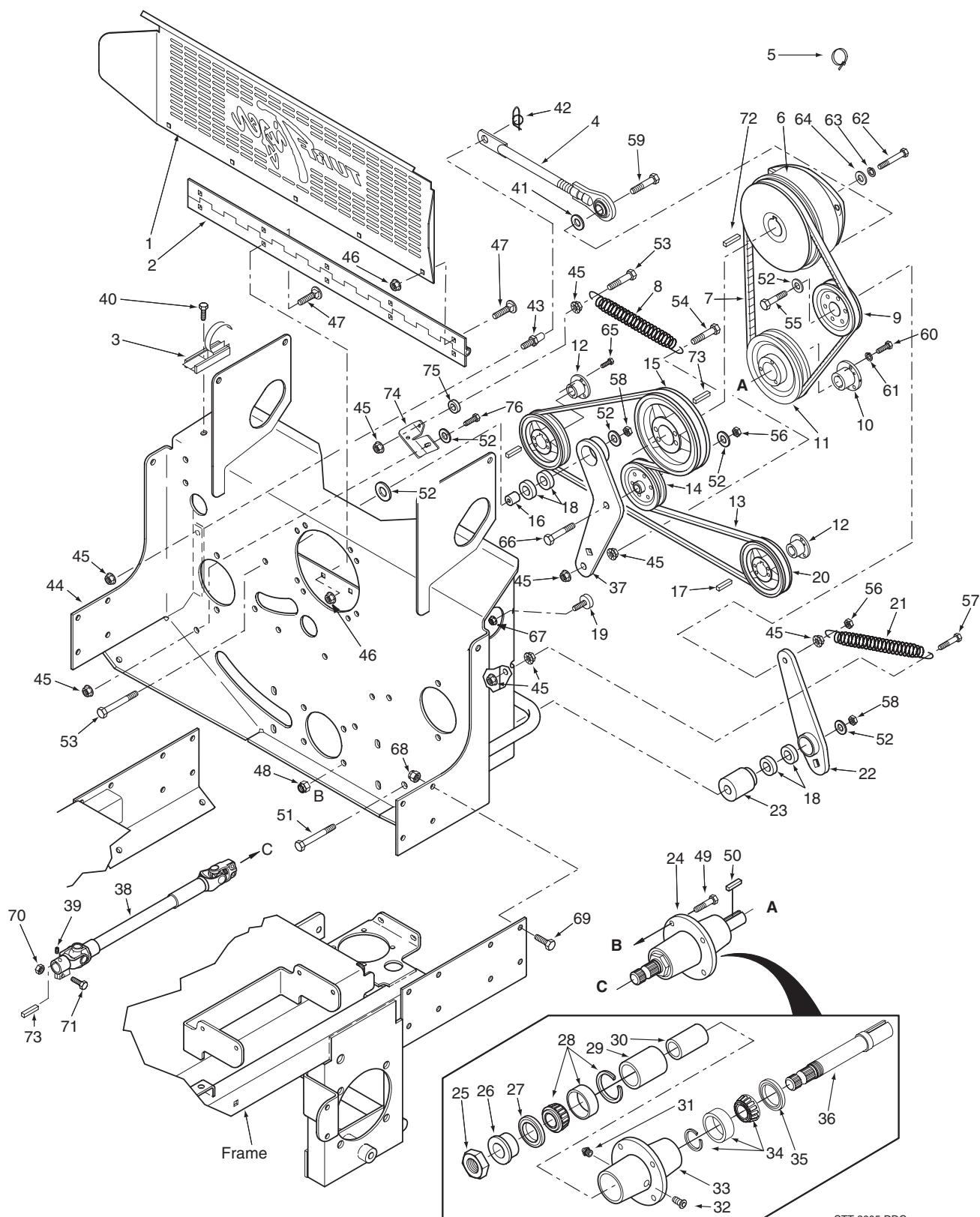


STT 2007 FOLD ROPS

STT ROLL-OVER PROTECTION SYSTEM - WITH SUSPENSION SEAT

Ref. Part No. No.	Description
1 9514	STT, ROPS Accessory (incl. all items below)
2 04001-82	Bolt, Hex Head 1/2-13 x 4-1/2"
3 04021-19	Nut, Center Lock 1/2-13
4 04001-178	Bolt, Hex Head 7/16-20 x 1"
5 04040-11	Flatwasher, 7/16-.500 x 1.25 x .083
6 483594	Retractable Seat Belt
7 04001-45	Bolt, Hex Head 3/8-16 x 2"
8 04041-07	Flatwasher, 3/8-.391 x .938 x .105
9 43606	Sleeve, Seat Base Mounting
10 04021-09	Nut, Elastic Stop 3/8-16
11 04001-09	Bolt, Hex Head 5/16-18 x 1"
12 461968	Bracket, Seat Hold Down with Decal
13 424193	Spacer, Seat Hold Down
14 04019-03	Nut, Serrated Flange 5/16-18
15 04040-13	Flatwasher, 1/2-.562 x 1.375 x .109
16 04001-145	Bolt, Hex Head 1/2-13 x 3-1/2"
17 04021-19	Nut, Center Lock 1/2-13
18 424407	Bracket, Stop
19 483262	Pin
20 481625-03	Thumb Screw, 5/16-18 NC x 3/4"
21 04062-06	Hair Pin, Cotter
22 483265	Clamp
23	Spacer

DECK DRIVE COMPONENTS

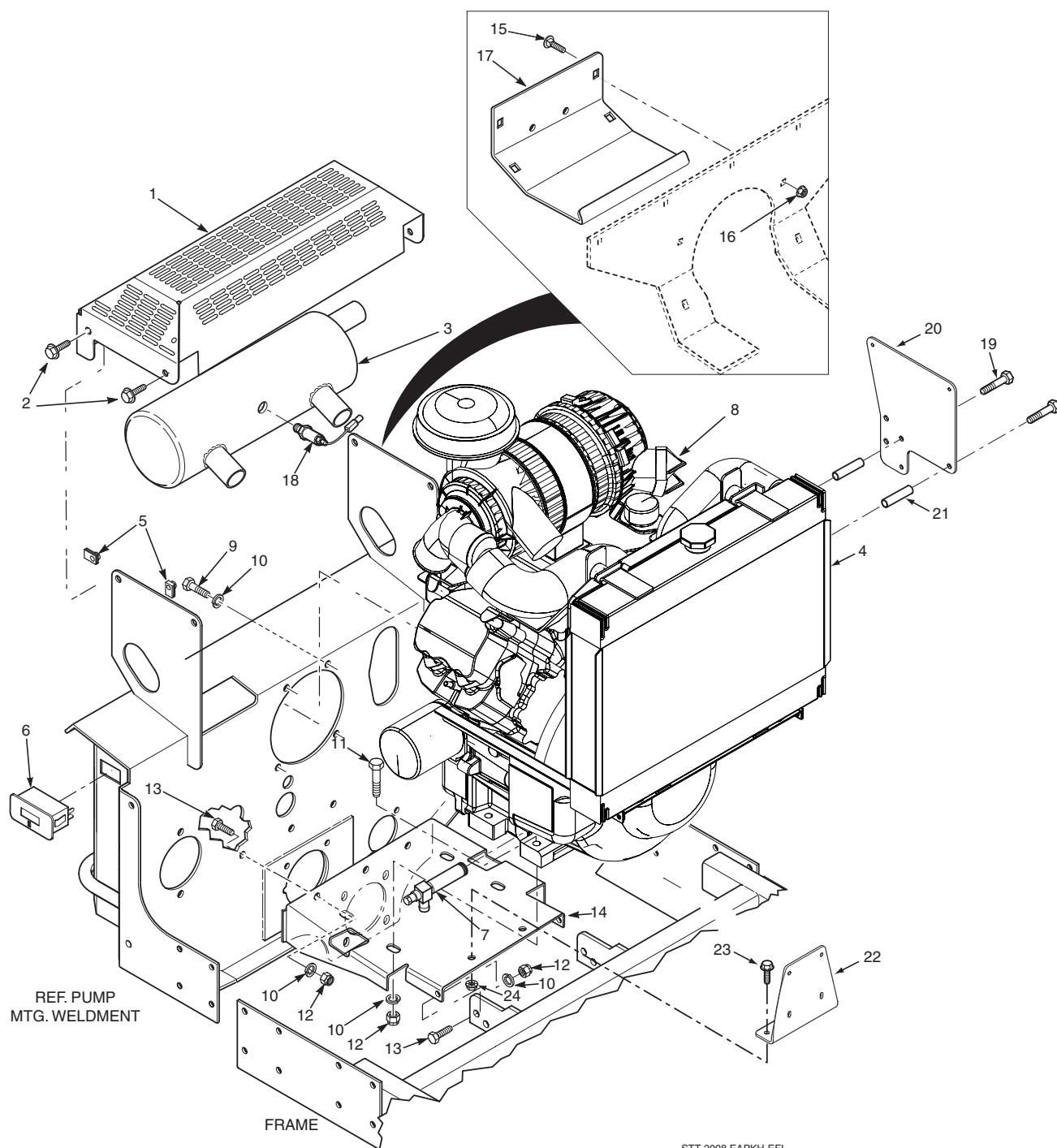


STT 2005 DDC

DECK DRIVE COMPONENTS

Ref. Part No. No.	Description	Ref. Part No. No.	Description
1 423925	Belt Guard, Rear	43 43507	Stud, Anti Rotation
2 481531	Hinge, Belt Guard	44 461801	Pump Mounting Plate Weldment (Liquid-Cooled)
3 481309	Latch, Hood	45 04019-04	Nut, Serrated Flange 3/8-16
4 482845	Rod Assembly, Clutch Anti-Rotation	46 04019-02	Nut, Serrated Flange 1/4-20
5 48030-09	Clamp, Cable	47 04003-07	Bolt, Carriage 1/4-20 x 1/2"
6 461661	Clutch, Ogura GT-3.5	48 04021-22	Nut, Elastic Stop 5/16-18 Grade 8
7 482876	Belt, Deck Drive	49 04001-176	Bolt, Hex Head 5/16-18 x 1-3/4" Grade 8
8 483088	Spring, Transmission Idler	50 04063-06	Key, 1/4 x 1/4 x 1-1/2"
9 48181	Pulley, Idler 5" Dia.	51 04001-171	Bolt, Hex Head 3/8-16 x 4-1/2" Grade 8 Black
10 481536	Tapered Hub, 1" Bore	52 04043-04	Washer, 3/8" Hardened
11 482949	Pulley, 6.70 Tapered Bore	53 04001-135	Bolt, Hex Head 3/8-16 x 1-3/4" Grade 8 Black
12 481884	Tapered Hub, 17mm Bore	54 04001-136	Bolt, Hex Head 3/8-16 x 1-1/2" Grade 8 Black
13 483678	Belt, Pump Drive	55 04001-170	Bolt, Hex Head 3/8-16 x 2-1/2" 1.5 Thread Grd.8
14 483214	Pulley, Idler 4" Dia.	56 04021-05	Nut, Center Lock 3/8-16
15 483675	Pulley, 5.367 Dia. - 1.125 Bore	57 04001-136	Bolt, Hex Head 3/8-16 x 1-1/2" Grade 8 Black
16 43631	Spacer, Idler Bearing	58 04021-09	Nut, Elastic Stop 3/8-16
17 04063-14	Key, 5.0 x 5.0 x 25mm	59 04001-45	Bolt, Hex Head 3/8-16 x 2"
18 48224	Ball Bearing	60 04001-109	Bolt, Hex Head 1/4-20 x 1-3/8"
19 481284	Bumper, Rubber	61 04030-02	Lockwasher, 1/4" Spring
20 482744	Pulley, 5.75" O.D.	62 04001-101	Bolt, Hex Head 7/16-20 x 2-1/2" UNF
21 482667	Spring, PTO	63 04030-05	Lockwasher, 7/16" Spring
22 461609	Idler Arm Weldment, PTO Drive	64 04041-28	Flatwasher, 7/16-.469 x 1.75 x .25
23 43632	Pivot, Idler PTO	65 04001-172	Bolt, Hex Head 1/4-20 x 1" Grade 8
24 461697	Spindle Assembly, Deck Drive	66 04001-21	Bolt, Hex Head 3/8-16 x 1-3/4"
25 481035	Nut, 1.06-18 Thread	67 04019-03	Nut, Serrated Flange 5/16-18
26 43297	Spindle Bushing, Bottom	68 04021-09	Nut, Elastic Stop 3/8-16
27 481025	Seal, 2.0 OD x 1.625 Bore	69 04001-19	Bolt, Hex Head 3/8-16 x 1"
28 481022	Roller Bearing Tapered	70 04021-05	Nut, Center Lock 3/8-16
29 43312	Spacer, Outside	71 04001-21	Bolt, Hex Head 3/8-16 x 1-3/4"
30 43296	Spacer, Inside	72 04063-02	Key, 1/4 x 1/4 x 2-1/4"
31 48114-04	Grease Fitting, 1/4-28	73 04063-20	Key, 1/4 x 1/4 x 1"
32 48677	Relief Fitting	74 424138	Bracket
33 43644	Spindle Housing	75 43063	Spacer
34 481022	Roller Bearing Tapered	76 04001-19	Bolt, Hex Head 3/8-16 x 1"
35 481024	Seal, 2.0 OD x 1.5 Bore		
36 43534	Shaft, Deck Drive		
37 461608	Idler Arm Weldment, Pump Drive		
38 482438	Driveshaft (Liquid-Cooled Engine)		
39 04012-08	Set Screw, 3/8-16 x 3/4" Torx Socket		
40 04011-11	Screw, #10-32 x .56		
41 04041-07	Flatwasher, 3/8-.391 x .938 x .105		
42 04069-01	Pin, Rue Cotter 3/8 Dia.		

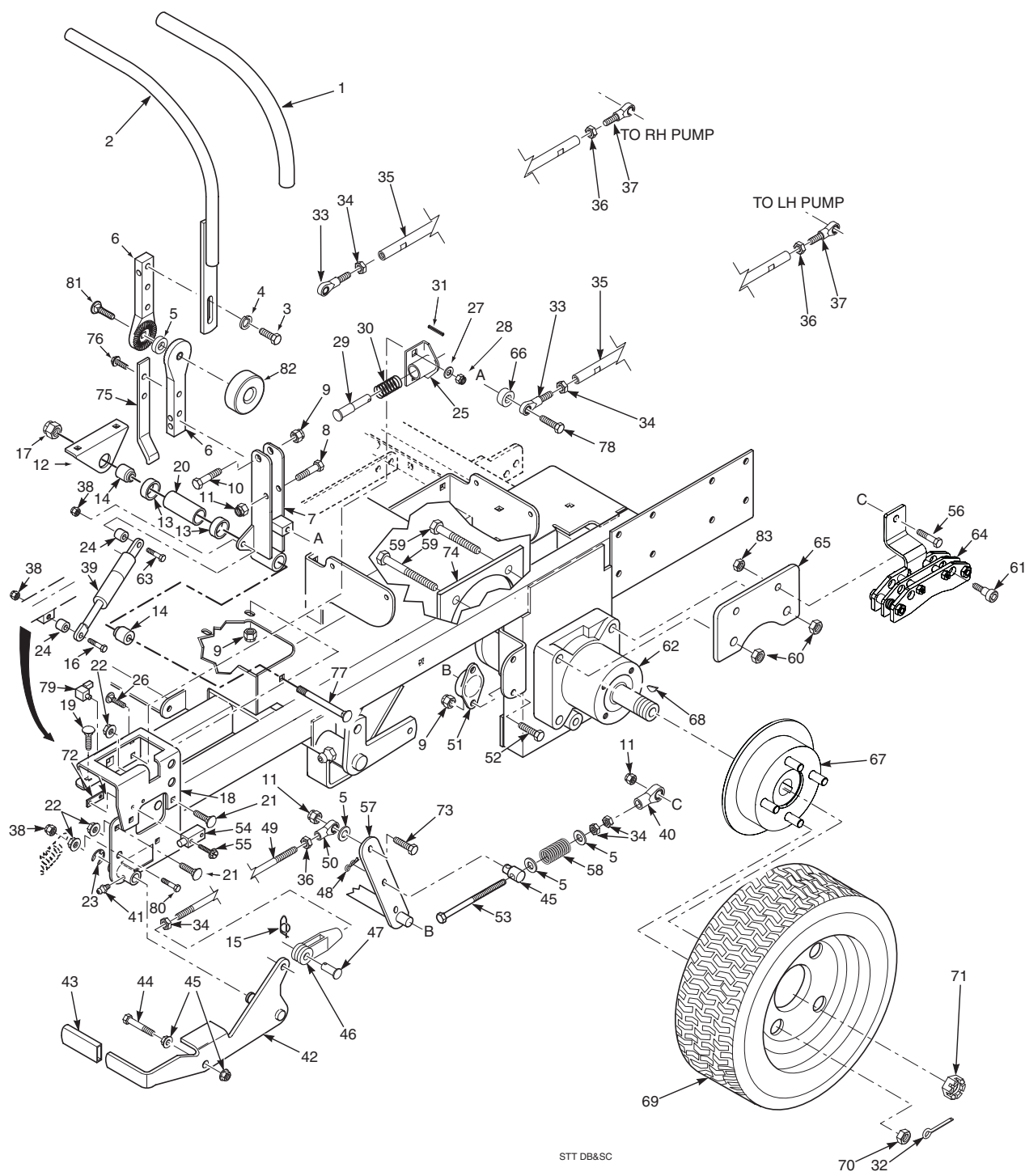
ENGINE & ATTACHING PARTS - 31HP-EFI KOHLER



ENGINE & ATTACHING PARTS - 31HP-EFI KOHLER

Ref. No.	Part No.	Description
1	424910	Muffler Guard (Kohler)
2	04017-05	Screw, Hex Serrated Flange 1/4-20 x 3/4"
3		Muffler (Available only through Kohler)
4	451997	Screen Weldment, Radiator (Kohler)
5	04110-01	U-Nut, 1/4-20
6	483355	Hour Meter
7	482510	Oil Drain Extension
8	483687	Engine, Kohler 31HP-EFI Aegis (Available only through Kohler)
9	04001-19	Bolt, Hex Head 3/8-16 x 1"
10	04030-04	Lockwasher, 3/8" Spring
11	04001-21	Bolt, Hex Head 3/8-16 x 1-3/4"
12	04021-09	Nut, Hex Elastic Stop 3/8-16
13	04001-32	Bolt, Hex Head 3/8-16 x 1-1/4"
14	451454	Plate, Engine Mounting
15	04003-12	Bolt, Carriage 5/16-18 x 3/4"
16	04019-03	Nut, Hex Serrated Flange 5/16-18
17	424691	Rear Cover
18	**	o2 Sensor (Available through Kohler Only)
19	04002-23	Bolt, Hex Head M6-1.0 X 90mm
20	424888	Mounting Bracket, ECU Kohler EFI
21	43774	Spacer, ECU Mounting
22	424889	Mounting Bracket, Fuel Pump Kohler EFI
23	04017-05	Bolt, Hex Head 1/4-20 x 3/4"
24	04019-02	Nut, Serrated Flange 1/4-20

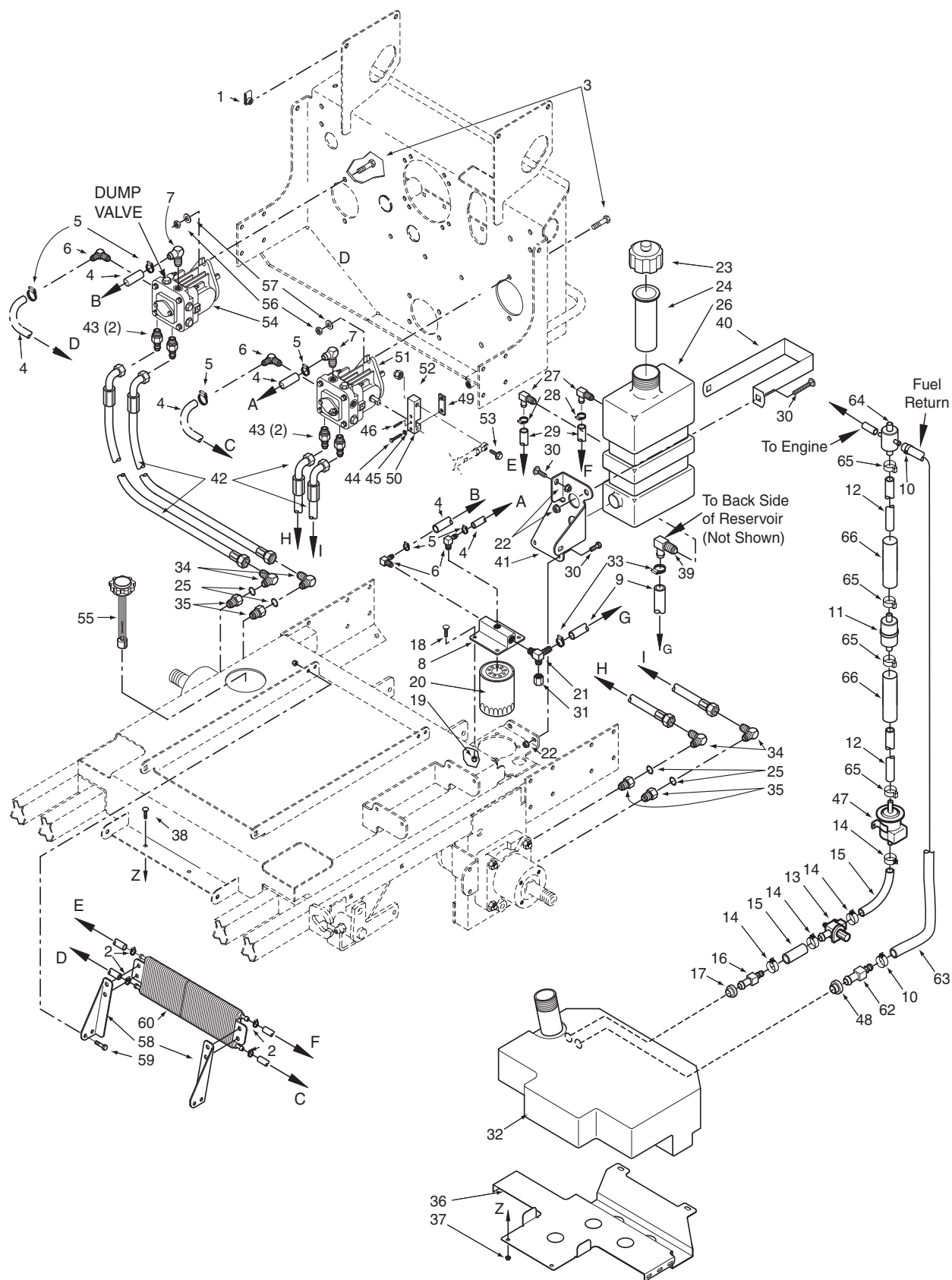
BRAKE AND STEERING COMPONENTS



BRAKE AND STEERING COMPONENTS

Ref. Part No. No.	Description	Ref. Part No. No.	Description
1 482340	Grip, Handle Bar	44 04001-22	Bolt, Hex Head 3/8-16 x 2-3/4"
2 461914	Handle Bar, LH (Includes item 1)	45 43773	Swivel Joint
461923	Handle Bar, RH (Includes item 1)	46 48343-04	Clevis, Traction Control
3 04001-09	Bolt, Hex Head 5/16-18 x 1"	47 04064-02	Pin, Clevis 3/8-16 x 1-1/16"
4 04030-03	Lockwasher, 5/16"	48 04062-01	Hair Pin Cotter
5 483250	Rubber Spacer	49 04004-34	Rod, Parking Brake
6 483238	Bar, Control Lever	50 48544	Rod End, LH Thread
7 451483	Control Lever Weldment, LH	51 482061	Bushing, Self Align
451484	Control Lever Weldment, RH	52 04001-08	Bolt, Hex Head 5/16-18 x 3/4"
8 04001-17	Bolt, Hex Head 5/16-18 x 2"	53 04001-192	Bolt, Hex Hd 3/8-24 x 5-1/2"
9 04021-10	Nut, Hex Elastic Stop 5/16-18	54 481637	Switch
10 04001-45	Bolt, Hex Head 3/8-16 x 2"	55 04010-12	Screw, Hex SLTD WSHR Head #10 32 x 3/4"
11 04021-09	Nut, Hex Elastic Stop	56 451970	Brake Linkage, LH
12 423488	Mount, Control Linkage	451971	Brake Linkage, RH
13 48224	Ball Bearings, Neutral Return	57 45953	Bellcrank, Brake Actuator
14 43607	Spacer	58 48807	Spring
15 04069-01	Pin, Rue Cotter 3/8 Dia.	59 04001-190	Bolt, Hex Head 1/2-13 x 2-3/4" (upper)
16 04001-13	Bolt, Hex Head, 5/16-18 x 2.75 Zinc	04001-52	Bolt, Hex Head 1/2-13 x 2-1/2" (lower)
17 04021-13	Nut, Hex Elastic Stop 5/8-11	60 04021-19	Locknut, Hex 1/2-13 Center Lock
18 461601	Bracket, Control Lever LH	61 04009-13	Bolt, Shoulder 3/8-16 x 2-1/2"
461602	Bracket, Control Lever RH	62 483677	Wheel Motor, Hydro-Gear 18E (35BV)
19 04003-04	Bolt, Carriage 5/16-18 x 1"	63 04001-12	Bolt, Hex Head, 5/16-18 x 1.75, Zinc
20 43600	Spacer, Bearing	64 483701	Brake Caliper
21 04003-12	Bolt, Carriage 5/16-18 x 3/4"	65 424894	Mounting Bracket, Brake
22 04019-03	Nut, Hex Serrated Flange 5/16-18	66 43063	Spacer
23 04050-01	Ring, Retaining 5/8" External "E"	67 461438	Wheel Hub/Disk Brake Assembly
24 43602	Spacer	68 04063-25	Key, Woodruff 5/16 x 1"
25 45918	Bracket, Neutral Return	69 481850	Wheel Assembly 24 x 12-12 Turf Master
26 04003-02	Bolt, Carriage 1/4-20 x 3/4"	481851	Rim W/Valve Stem
27 04040-14	Flatwasher, 1/4" (.312 x .750 x .065)	481852	Tire, 24 x 12-12 Turf Master
28 04021-08	Nut, Hex Elastic Stop 1/4-20	70 04028-02	Lug Nut, 1/2-20
29 43477	Pin, Retaining Spring	71 48680	Nut, Hex Castle
30 481389	Spring	72 422373	Threaded Plate
31 04060-01	Roll Pin, Spring 5/32 x 3/4"	73 04001-20	Bolt, Hex Head 3/8-16 x 1-1/2"
32 04061-06	Pin, Cotter 9/16 x 1-1/2"	74 423279	Plate Weldment, Motor Backing
33 482586	Rod End, Male 3/8-24 RH Thread	75 423491	Actuator Switch
34 04020-25	Nut, 3/8-24 RH Thread	76 04017-16	Bolt, Hex Serrated Flange 5/16-18 x 3/4"
35 43629	Tube, Control Link Air-Cooled Engine	77 04003-36	Bolt, Carriage 3/8-16 x 4-3/4"
43624	Tube, Control Link Liquid-Cooled Engine	78 04001-19	Bolt, Hex Head 3/8-16 x 1"
36 04020-26	Nut, Hex 3/8-24 LH Thread	79 481638	Switch
37 482585	Rod End, Male 3/8-24 LH Thread	80 04001-168	Bolt, Hex Head 3/8-16 x 1-1/4" Grade 8
38 04021-10	Locknut, 5/16-18, Elastic Stop	81 04003-38	Bolt, Carriage 5/16-18 x 1-1/2"
39 482794	Gas Damper	82 483269	Knob
40 482330	Rod End, 3/8-24 RH Female	83 04021-05	Nut, Center Lock 3/8-16
41 48114-04	Grease Fitting		
42 461082	Lever, Parking Brake (Includes item 43)		
43 481548	Grip, Parking Brake		

FUEL AND HYDRAULIC SYSTEM - KOHLER 31EFI



2008 STT F&HS-EFI.eps

FUEL AND HYDRAULIC SYSTEM - KOHLER 31EFI

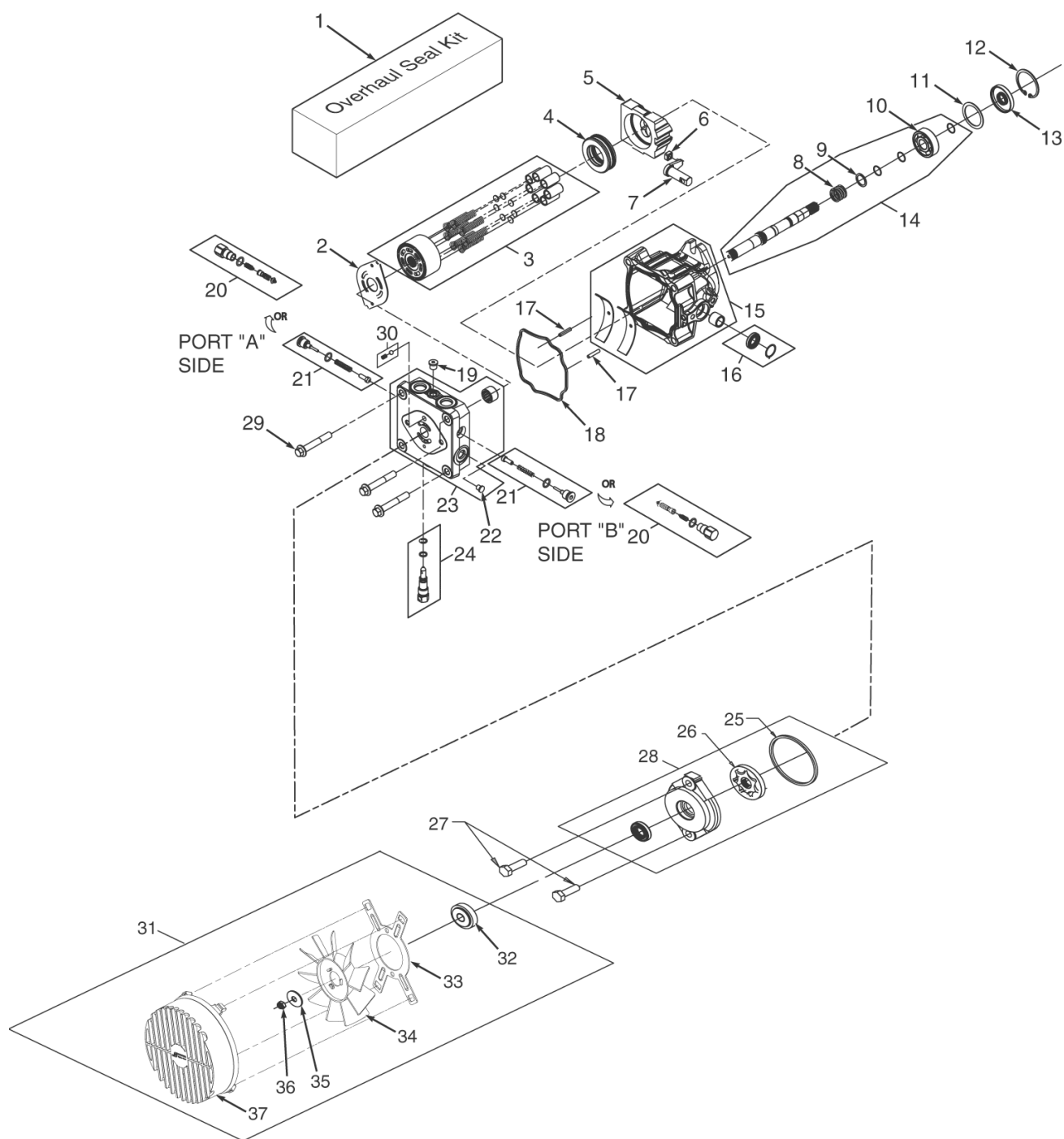
Ref. No.	Part No.	Description	Ref. No.	Part No.	Description
1	04110-01	U-Nut 1/4-20	46	04060-09	Roll Pin, Spring 3/16 x 3/4"
2	48136-13	Hose Clamp, 0.69" Dia.	47	**	Fuel Pump, Kohler 31EFI (p/n 24 393 52)
3	04001-03	Bolt, Hex Hd. 1/4-20 x 2.0"	48	48309	Bushing
4	48811	*** Hose, 3/8" I.D. Pushlock	49	422694	Clamp Plate, Pump Control
5	48136-07	Clamp, Hose 1/2"	50	481793	Block, Pump Control
6	482266-01	Elbow, 90 Degree - 9/16" O-ring x 3/8" Hose	51	483101	Pump, Left Hand, BDP-16A
7	482266-02	Elbow, 90 Degree - 3/4" O-ring x 3/8" Hose	52	04021-09	Nut, Hex, Elastic Stop 3/8-16
8	482417	Oil Filter Base	53	04001-32	Bolt, Hex Hd., 3/8-16 x 1-1/4
9	482606	Hose Assy., 1/2" I.D. (Tank to Filter Base)	54	483100	Pump, Right Hand, BDP 16A
10	48059-01	Clamp, Fuel Hose 1/4" Hose I.D.	55	482497	Cap, Fuel Tank w/Gauge
11	**	Fuel Filter, Kohler (p/n 24 050 03)	56	04021-09	Nut, Hex Elastic Stop 3/8-16
12	*483691	*** Fuel Hose, 5/16" I.D. Non-Perm.	57	04043-04	Flatwasher, 3/8" (.391 x .938 x .105") Grd. 8
13	481308	Valve, Shutoff	58	423524	Mounting Bracket - LH, Oil Cooler
14	48059-04	Clamp, Fuel Hose 5/16" Hose I.D.		423525	Mounting Bracket - RH, Oil Cooler
15	483620	*** Fuel Hose, 5/16" I.D. Non-Perm.	59	04001-08	Bolt, Hex Hd. 5/16-18 x 3/4"
16	483749	Hose Fitting w/Screen	60	482505	Cooler, Oil
17	48309	Bushing	61	48136-13	Clamp, .69" Dia.
18	04001-09	Bolt, Hex Hd. 5/16-18 x 1.0" Zinc	62	482703	Fitting, Hose
19	04019-03	Nut, Serr. Flng. 5/16-18	63	483617	*** Hose, 1/4" Fuel Line Non-Perm.
20	48758	Oil Filter	64	**	Regulator Assembly, Fuel Pressure (p/n 24 403 16)
21	482483	Tee, 3/4 O-ring x JIC x 1/2" Hose	65	483699	Fuel Clamp, 5/16" Oetiker
22	04021-08	Nut, Hex Elastic Stop 1/4-20	66	482839-01	Shield, Flexible
23	481164	Cap, Hydraulic Tank			
24	481507	Insert, Filler Neck			
25	48603-02	O-Ring			
26	461451	Oil Reservoir Assembly (Incl. 24, 27, & 39)			
27	482572	Elbow, 90 Degree .38" Hose			
	482571	Bushing, .56" Dia. Viton			
28	48136-13	Hose Clamp, 0.69" Dia.			
29	48811	*** Hose, 3/8" I.D., Pushlock			
30	04010-10	Screw, Phillips Head, 1/4-20			
31	48571-02	Cap			
32	461586	Fuel Tank Assembly (Incl. 16, 17, 65, & 66)			
33	48136-05	Clamp, Hose			
34	48350-02	Elbow, 90 Degree, 7/8-14 THD			
35	48938-02	Bushing, 7/8-14 JIC x 3/4-16 O-Ring			
36	423701	Support Bracket, Fuel Tank			
37	04019-03	Nut, 5/16-18 Serr. Flng.			
38	04003-02	Bolt, Carriage 1/4-20 x 3/4"			
39	482574	Elbow, 90 Degree			
	482573	Bushing, .78" Dia. Viton			
40	423513	Strap, Hydraulic Tank			
41	423485	Support Bracket, Hydraulic Tank			
42	481611	Hose Assembly, Pump			
43	48572-04	Union, 3/4-16 JIC x 3/4-16 O-ring			
44	04001-59	Bolt, Hex Hd., 1/4-20 x 1-14"			
45	04030-02	Lockwasher, 1/4" Spring			

* High Pressure Fuel Line. MUST only be replaced with the part number listed.

** Available through the individual engine manufacturer.

*** Order by Inch.

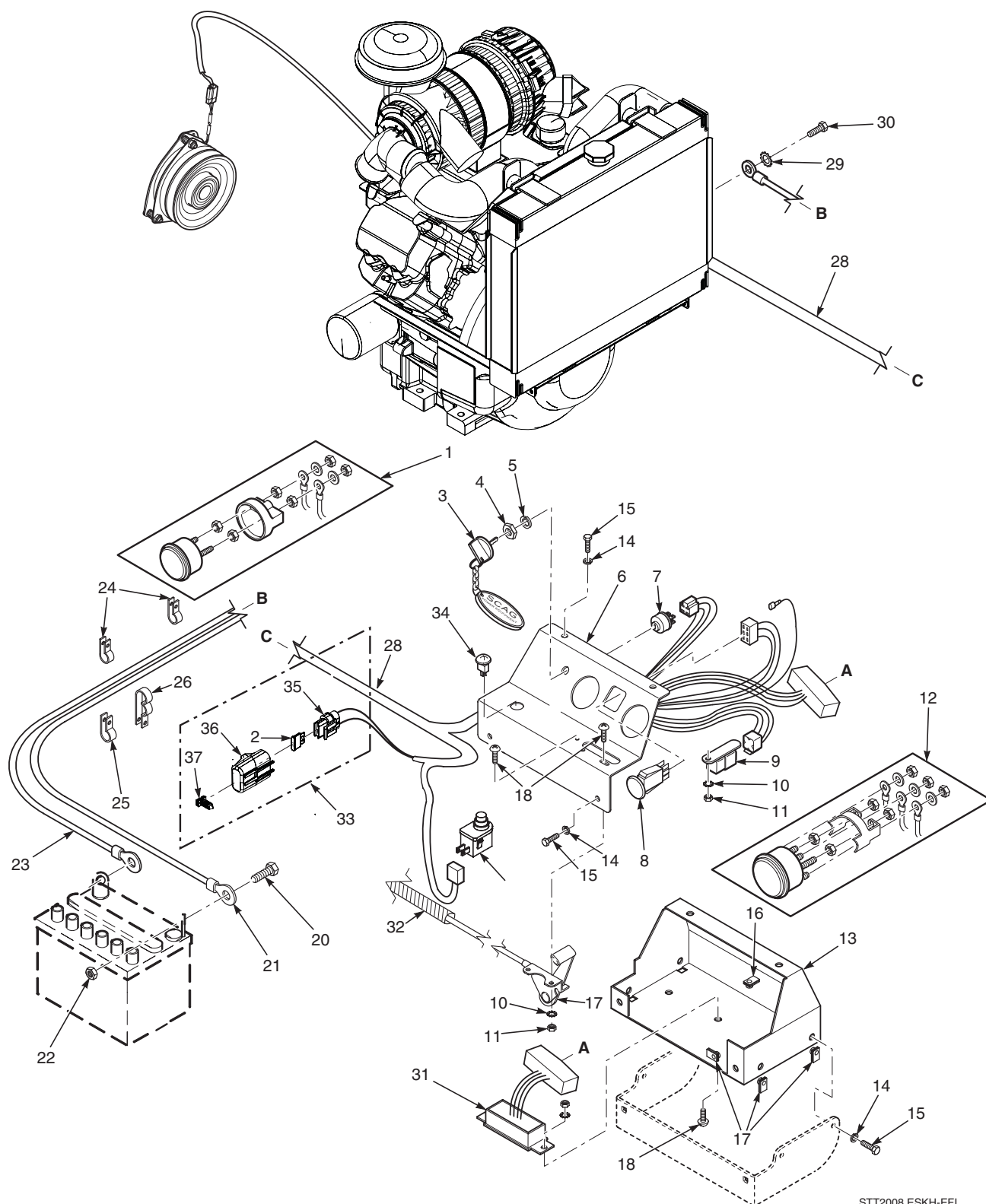
BDP-16A HYDRAULIC PUMP ASSEMBLY WITH COOLING FAN



BDP-16A HYDRAULIC PUMP ASSEMBLY WITH COOLING FAN

Ref. No.	Part No.	Description
1	HG70740	Overhaul Seal Kit
2	HG51455	Valve Plate
3	HG70735	Cylinder Block Kit - 16cc
4	HG51462	Thrust Ball Bearing Assembly
5	HG51436	Variable Swashplate
6	HG2000015	Slot Guide
7	HG2000014	Trunnion Arm
8	HG2000025	Block Spring
9	HG2000024	Block Thrust Washer
10	HG2000032	Shaft Ball Bearing
11	HG2000023	Spacer
12	HG2000038	Retaining Ring
13	HG51092	Seal
14	HG70578	Kit, Pump Shaft (keyed thru taper)
15	HG70738	Housing Kit
16	HG70739	Trunnion Seal Kit
17	HG50641	Pin
18	HG51437	O-Ring
19	HG9005110-7500	Straight Thread Plug
20	HG70743	Shock Valve Kit (.031 Orifice)
21	HG70742	Shock Valve Kit (.024 Orifice)
22	HG9005200-7500	Straight Thread Plug
23	HG70736	End Cap Kit
24	HG2513030	Bypass Valve Kit
25	HG9004100-1430	O-Ring
26	HG50406	Gerotor Assembly (.19 cu.in./rev.)
27	HG50173	Socket Head Cap Screw (M8 x 1.25-25mm)
28	HG70924	Charge Pump Kit (.19 STD. Splined)
29	HG51457	Hex Screw, Flanged Head (M10 x 1.50-65mm)
30	HG70402	Charge Relief Kit
31	HG71287	Fan Kit (incl. items 32, 33, 34, 35, 36, 37)
32	HG51348	Hub
33	HG52016	Bracket, Shroud
34	HG52014	Fan
35	HG51348	Washer
36	HG44809	Nut
37	HG52059	Shroud

ELECTRICAL SYSTEM (31HP-EFI KOHLER)



STT2008 ESKH-EFI

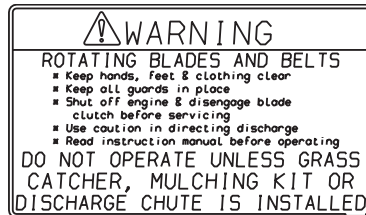
ELECTRICAL SYSTEM (31HP-EFI KOHLER)

Ref. No.	Part No.	Description
1	481184	Volt Meter
2	48298	Fuse, 20 AMP
3	483366	Key, Ignition
	462069	Key Assembly w/Fob
4	48017-04	Nut, Hex 5/8-32
5	48017-03	Lockwasher, 5/8" Internal
6	461916	Instrument Panel, Top w/Decals
7	48798	Key Switch
8	483162	Switch, PTO
9	48788	Relay
10	04031-01	Lockwasher, #10 External Tooth
11	04020-01	Nut, Hex #10-32
12	481183	Water Temp. Gauge
13	451879	Base, Instrument Panel
14	04030-02	Lockwasher, 1/4"
15	04001-01	Bolt, Hex Head 1/4-20 x 3/4"
16	04110-01	U-Nut, 1/4-20
17	481662	Throttle Controls
18	04010-01	Screw, Phillips Washer Head #10-32 x 1/2"
19	481638	Switch, Interlock-Seat
20	04001-44	Bolt, Hex Head 1/4-20 x 1/2"
21	48029-06	Cable, Battery - Red
22	04020-02	Nut, Hex 1/4-20
23	48029-11	Cable, Battery - Black
24	48030-09	Clamp, Cable 1/2" ID.
25	48136-05	Clamp, Cable 3/4" ID.
26	48030-11	Clamp, Cable
27	481670	Sending Unit, Water Temp.
28	483688	Wire Harness, STT Liquid Cooled Electronic Fuel Injection (EFI)
29	04031-03	Lockwasher, 5/16" External Tooth
30	04002-12	Bolt, Hex Head M8-1.25 x 20
31	483029	Electronic Module
32	481945-01	Heatshield, Flexible
33	483641	Single Fuse Assembly, Sealed (Incl. items 2, 35, 36, 37)
34	481182	Indicator Light, Check Engine
35	483629	Fuse Holder
36	483643	Cover, Sealed Single
37	482588	Clip, Wire

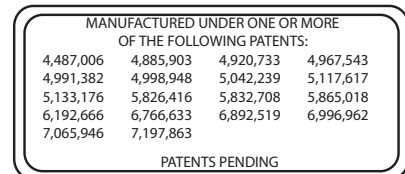
REPLACEMENT DECALS AND INFORMATION PLATES



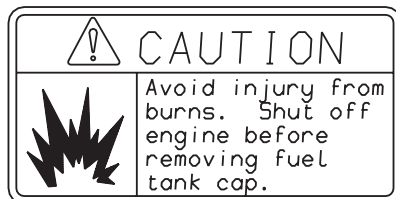
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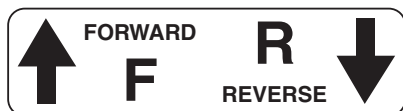
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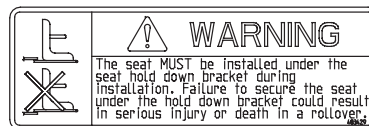


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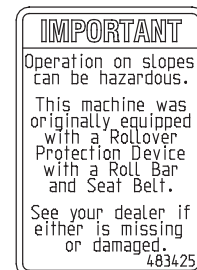
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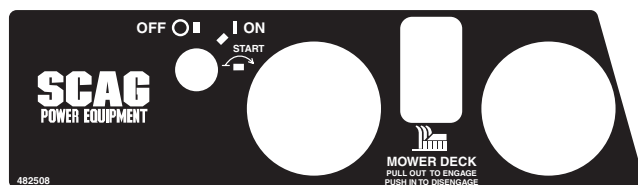
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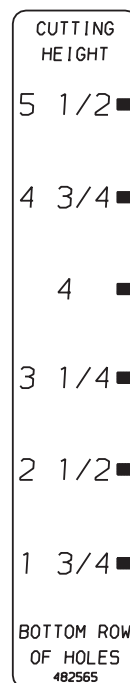
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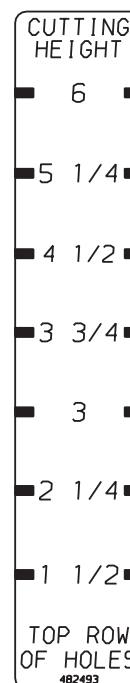
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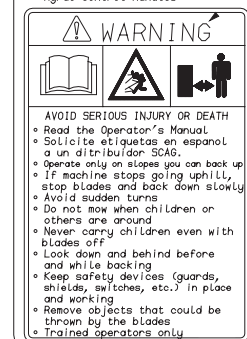
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REPLACEMENT DECALS AND INFORMATION PLATES

Ref. No.	Part No.	Description
1	483192	Decal, Danger-Spinning Blades
2	483406	Decal, Warning-Rotating Blades
3	483201	Decal, 61 Velocity Plus
4	483397	Decal, Fuel Tank
5	483044	Decal, Patents
6	481568	Decal, Traction Control
7	481971	Decal, Heavy Duty Commercial
8	48404	Decal, Metalcraft-Made In USA
9	483402	Decal, Belt Cover
10	483429	Decal, Warning Seat Hold Down
11	482508	Decal, Instrument Panel-Upper (Kawasaki)
12	483633	Decal, Seat Replacement
13	482565	Decal, Cutting Height - Lower
14	483444	Decal, Start/Drive Procedure
15	482710	Decal, Seat Support
16	482577	Decal, Turf Tiger
17	483229	Decal, Turf Tiger
18	481664	Decal, Stripes-RH
19	481663	Decal, Stripes-LH
20	481694	Decal, Tiger
21	483405	Decal, Warning
22	482493	Decal, Cutting Height - Upper
23	482984	Decal, Instrument Panel - Lower (Kawasaki 29HP-DFI only)
24	483158	Decal, ROPS
25	483425	Decal, ROPS
**	461982	Spanish Decal Kit, STT (not shown)

IMPORTANT ADJUSTMENT PROCEDURES
READ OPERATOR'S MANUAL FOR MORE DETAILS
 Check tire pressure - (Drive tires-12 psi, Caster tires-25 psi)

NEUTRAL ADJUSTMENT

 Loosen jam nuts.
 Rotate turnbuckle.

With an operator in the seat, engine running, control levers in neutral and the parking brake disengaged - adjust control linkage. Loosen jam nuts. If wheel rotates forward, adjust turnbuckle CCW. If wheel rotates rearward, adjust turnbuckle CW. Adjust until drive wheel stops turning. Tighten jam nuts. Repeat for opposite side.

TRACKING ADJUSTMENT
 If the machine pulls to the right, adjust LH control linkage CCW to slow left wheel. If the machine pulls to the left, adjust RH control linkage CCW to slow right wheel. Readjust neutral if necessary.

FREE WHEEL OPERATION
 To move machine without running the engine, rotate both dump valves located at the LH side of the pumps CCW 1/2 turn to "freewheel" positions. Return dump valves to original position to operate the mower. Tighten to 7-10 ft-lbs.

HYDRAULIC FLUID LEVEL
 Check hydraulic fluid level while fluid is cool. Fluid level should be 3" below top of filler neck. Fill with SAE 20W50 motor oil only.

IMPORTANT
 Do not overfill. Room for hot fluid expansion must be allowed or resulting expansion may cause leaks in the system.

IMPORTANT
 Gearbox Lubricant:
 SAE 80W90 gear oil

IMPORTANT
DRIVESHAFT MAINTENANCE
 Grease yokes 3-4 pumps
 Every 200 hours

 Grease spline 8-10 pumps
 Every 50 hours

482710

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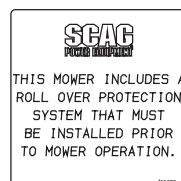
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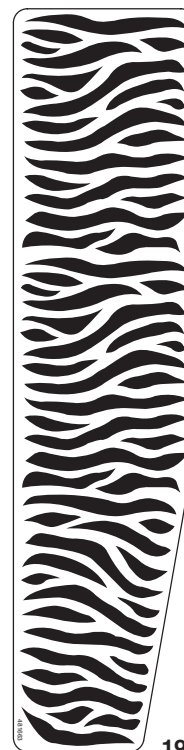
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ELECTRICAL SCHEMATIC (KOHLER 31HP - EFI)

